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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,940	07/11/2003		Joseph P. Downes	GSIL 0117 PUSA I	3974
22045	7590	11/09/2006		EXAMINER	
BROOKS			HEINRICH,	HEINRICH, SAMUEL M	
1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075				ART UNIT	PAPER NUMBER
				1725	
				DATE MAILED: 11/09/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		( )
	Application No.	Applicant(s)
	10/617,940	DOWNES ET AL.
Office Action Summary	Examiner	Art Unit
	Samuel M. Heinrich	1725
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA:  Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w. Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>05 Se</u>	eptember 2006.	
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.	
3) Since this application is in condition for allowar	•	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 39-55 is/are pending in the application 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 39-55 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 11 July 2003 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 39-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP937533A1 in view of Applicant's Admitted Prior Art (AAPA) in view of USPN 6,353,203 to Hokodate et al an in view of US20020113218A1 to Okumura et al. EP937533A1 describes (Derwent Abstract "Novelty" and EP937533A1 Figure 1) a laser drilling method comprising "using an optical sensor to monitor light... the optical sensor is positioned out of the line of axis of the laser beam". AAPA discloses (Specification, Pages 1-4, Background of the Invention) well known laser marking systems and the known need for a flexible, economical, high-speed marking system. Hokodate et al

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describe (column 1, Technical Field) "a laser machining device for drilling, cutting, or marking a material of a printed circuit board, a semiconductor chip or the like".

Okumura et al describe [0017] known alignment technique of "scanning two separated points on the flat portion of the wafer held on the stage and two points on the circular peripheral edge of the wafer". The use of a known laser drilling method having optical sensors located disjoint from an optical axis of the laser marking beam for high resolution marking would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the method is known in the fields of substrate positioning and laser machining. The instant claimed receiving, imaging, locating, calculating, generating, and setting steps which are prior to the "generating ... a focused laser marking beam" are well known in chip marking because the edge or separating areas on the chip are useful for locating the laser markings.

### Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Noddin et al and JP09248688A describe both laser drilling and marking in circuit manufacture processes.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Samuel M Heinrich Primary Examiner Art Unit 1725

M. Henrich